

<b>Interview Summary</b>	Application No.	Applicant(s)	
	09/578,167	ENTWISTLE, PAUL	
	Examiner	Art Unit	
	Michael W. Hoyer	2614	

All participants (applicant, applicant's representative, PTO personnel):

(1) Michael W. Hoyer.

(3) John Miller.

(2) Mark G. Kachigian.

(4) \_\_\_\_\_.

Date of Interview: 26 October 2005.

Type: a) ☐ Telephonic b) ☐ Video Conference  
c) ☒ Personal [copy given to: 1) ☐ applicant 2) ☒ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.

If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: 1 and 9.


Identification of prior art discussed: Blatter et al (USPN 5,754,651) and Magee et al (USPN 5,835,493).

Agreement with respect to the claims f) ☒ was reached. g) ☐ was not reached. h) ☐ N/A.


Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: See Continuation Sheet.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

  
**JOHN MILLER**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2600**

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

  
 Examiner's signature, if required

## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

#### Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent and Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: The examiner and examiner's SPE came to an agreement with the applicant's representative that the proposed amendments to independent claims 1 and 9 would appear in principle to be allowable over the prior art of record, but would be subject to an updated search and further consideration as to the merits. The proposed amended claim language of, "...means for receiving said plurality of data transport streams and for simultaneously processing, merging, and demultiplexing said plurality of data transport streams, selecting packets of data from said plurality of data transport streams and only remapping the packet identifiers corresponding to said selected packets of data of each stream using the local database without remapping of said packets of data....", appears to render the claims allowable over the prior art of record. A copy of the proposed amendments to the claims is attached.

ATTORNEY DOCKET  
BA1525-275/00279  
CUSTOMER NO. 24,118

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 09/578,167 )  
Filing Date: 5/24/00 )  
Applicant: PAUL ENTWISTLE )  
For: DATA TRANSPORT STREAMS )  
Art Unit: 2734 )  
Examiner: MICHAEL HOYE )

**REVISED DRAFT  
AMENDMENT**

Assistant Director of Patents  
Mail Stop: Non-Fee Amendment  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Please reexamine the above-identified application in view of the following amendments and remarks.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Director of Patents, P. O. Box 1450, Alexandria, VA. 22313-1450, on October 26, 2005

**IN THE CLAIMS**

1           1.       (Currently Amended) A broadcast data receiver apparatus for receiving and  
2       processing data from a plurality of received data transport streams, said data broadcast from a  
3       location remote to ~~a the receiver~~ in a set-top box, and said receiver comprising:

4                   storage means for storing a local database in said receiver;  
5                   each ~~of~~ said plurality of data transport streams ~~stream~~ including packets of data and  
6       packet identifiers for identifying said ~~data~~ packets of data;  
7                   processing means processing a single stream of data,  
8                   means for receiving said plurality of data transport streams and for simultaneously  
9       processing, merging, and demultiplexing said plurality of data transport streams, selecting packets  
10      of data from said plurality of data transport streams and only remapping the packet identifiers  
11      corresponding to said selected ~~data~~ packets of data of each stream using the local database without  
12      remapping of said packets of data, the selected packets of data and the remapped packet identifiers  
13      from said plurality of data transport streams then being multiplexed into a single transport stream  
14      of data for subsequent processing in the receiver by the processing means.

1           2.       (Currently Amended) Broadcast data receiver apparatus according to claim 1  
2       wherein said plurality of data ~~the~~ transport streams ~~of data~~ are received from at least one from the  
3       group consisting of remote broadcast location or locations and/or from data storage means connected  
4       to or incorporated in the receiver and other sources connected to or incorporated in the receiver.

1           3.     (Previously Presented) Broadcast data receiver apparatus according to claim 1  
2     wherein said single transport stream of data which is generated by the multiplexing step includes  
3     selected packets of data from said plurality of transport streams of data received.

1           4.     (Previously Presented) Broadcast data receiver apparatus according to claim 3  
2     wherein said packets of data which are selected are selected automatically as they represent data  
3     which is required for said broadcast data receiver apparatus to operate correctly and/or in response  
4     to user selections.

1           5.     (Previously Presented) Broadcast data receiver apparatus according to claim 1  
2     wherein data from said plurality of transport streams is selected and said selected data is multiplexed  
3     into a single stream, is stored or recorded and/or is discarded in accordance with operating  
4     parameters for said broadcast data receiver apparatus at any instant.

1           6.     (Previously Presented) Broadcast data receiver apparatus according to claim 1  
2     wherein said processing means are integrated circuits, which accept one data input stream.

1           7.     (Previously Presented) Broadcast data receiver apparatus according to claim 6  
2     wherein said single transport data stream which is generated is presented to a single input component  
3     or components in said receiver for further processing and to allow the data to be used to perform a  
4     designated function.

1           8.     (Previously Presented) Broadcast data receiver apparatus according to claim 7  
2     wherein the designated function is selected from the group consisting of at least one of the generation  
3     of video displays, audio displays, recording of programs, playback of recorded programs, generation  
4     of electronic program guides, linking with internet services, e-mail, interaction with a personal  
5     computer, video, and/or other apparatus.

1           9.     (Currently Amended) A method for the generation of a single stream of data for  
2     subsequent processing from received multiple transport streams of data, said method comprising the  
3     steps of:

4                 receiving a plurality of transport streams of data, each containing packets of data and  
5     packet identifiers in local database storage in a receiver in a set top box,

6                 simultaneously processing, merging, and demultiplexing said plurality of streams of  
7     data;

8                 selecting packets of data from said plurality of streams of data,

9                 re-mapping only the packet identifiers within the selected packets of data using the  
10     local database without remapping of said packets of data, and

11                multiplexing the selected packets of data from said plurality of streams into a single  
12     stream of data, for subsequent processing.

1           10.    (Previously Presented) A method according to claim 9 wherein at least one of the  
2     received transport streams of data is broadcast data received from a remote location containing at  
3     least one from the group consisting of audio, video and auxiliary services data.

1           11.    (Original) A method according to claim 9 wherein demultiplexing of the received  
2   data from each transport stream is performed in accordance with information transmitted along with  
3   the data and identified by the receiver to in turn identify the packets of data.

1           12.    (Original) A method according to claim 11 wherein the re-mapping of the data  
2   packets identifier takes place under control of the receiver so as to allow the required data to be  
3   multiplexed into a single stream and avoid identifier clashes between packets of data from different  
4   transport streams.

1           13.    (Original) A method according to claim 12 wherein the locally controlled re-mapping  
2   of the packet identifiers allows the origin of the data to be subsequently identified in subsequent  
3   processing the same.